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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,306	08/10/2007	Herbert Koch	Muller-57	4973
39703 C. JAMES BUS	7590 03/13/200 SHMAN	EXAMINER		
5851 San Felipe	2	HAMMER, KATIE L		
SUITE 975 HOUSTON, TX	X 77057		ART UNIT	PAPER NUMBER
			1796	
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			03/13/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/582,306	KOCH, HERBERT			
Office Action Summary	Examiner	Art Unit			
	KATIE HAMMER	1796			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>26 Jules</u> This action is FINAL . 2b) ☑ This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-18 and 20 is/are pending in the appleada) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4,6-17 and 20 is/are rejected. 7) ☐ Claim(s) 5 and 18 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine is/are is/are as is/are as is/are as is/are as is/are.	vn from consideration. r election requirement. r.	- Vominor			
10) ☐ The drawing(s) filed on is/are: a) ☐ acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti 11) ☐ The oath or declaration is objected to by the Ex-	drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/26/2007.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

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Claims 1-18 and 20 are pending in this application.

DETAILED ACTION

Claim Objections

Claims 2, 12, and 16 are objected to because of the following informalities:

Claim 2 recites the phrase "in particular, the method in a preferred embodiment".

The Examiner suggests removal of this phrase for providing no additional information to the claim, and that "preferred embodiment" is not typical claim language.

Claim 12 contains the phrase "comprised a of a polyester". The Examiner suggests removal of the first "a" for clarity. Furthermore, the sentence "in one embodiment, the polyesters…have the formula" adds no additional information to the claim and should be removed.

Claim 16 recites the phrase "have from 16 to 180 C_2 to C_4 alkylene units" which is unclear. Clarification and/or correction is/are required.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2-4, 6-8, 10-12, 14-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. See MPEP § 2173.05(c). Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961); *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte Hasche*, 86 USPQ 481 (Bd. App. 1949).

In the present instance, claim 2 recites the broad recitation more than 90 weight percent, and the claim also recites preferably more than 95 weight percent which is the narrower statement of the range. Claim 3 recites the broad recitation polyol compound(s) with at least 3 OH groups having from 3-12 carbon atoms, and the claim also recites especially glycerol which is the narrower statement of the range/limitation. Claim 4 recites the broad recitation C₁-C₁₈ alcohol, and the claim also recitates especially a C₁ to C₆ alcohol, which is the narrower statement of this limitation. Claim 6 recites the broad limitation less than 5000 g/mole, and the claim also recites preferably from 2000 to 5000 g/mole, which is the narrower statement of the range. Claim 7 recites the broad recitation are selected from the group consisting of terephthalic acid,

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isophthalic acid, phthalic acid and their derivatives, and the claim also recites especially terephthalic acid and its derivatives, preferably in a quantity of greater 90 mole% of terephthalic acid and its derivatives which is the narrower statement of the limitation. Claim 8 recites the broad recitation less than 10 weight% of isophthalic acid or its derivatives, and the claim also recites especially no isophthalic acid or its derivatives are employed, which is the narrower statement of the limitation. Claim 11 recites the broad recitation aliphatic C_1 to C_{18} alcohols, and the claim also recites preferably C_1 to C_6 alcohols, which is the narrower statement of this limitation. Claim 12 recites the broad recitation a C_1 to C_{12} hydrocarbon residue, and the claim also recites especially ethyl or methyl, which is the narrower statement of this limitation. Claim 14 recites abrasive stones and/or enzymes, and the claim also recites especially at least cellulases, which is the narrower statement of this limitation.

Claim 10 recites the limitation "incorporation of anionic monomers and/or is capped with terminal groups". Claim 15 recites the limitation "the preceding desizing step". There is insufficient antecedent basis for these limitations in claims 10 and 15.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1, 3, 4, 11-16, 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Salsman et al. (US 6,008,182).

Salsman et al. teaches a process for preventing dye redeposition during the washing of a dyed fabric or a garment made from natural fibers, where the process incorporates a dye redeposition inhibiting agent and a water-soluble or water-dispersible polyester resin composition, as claimed in claim 4, (see abstract); and the treatment being applied to indigo dyed denim, as claimed in claims 1 and 12, (see col. 11, lines 53-56); that the oxyalkylated polyol is glycerol, as claimed in claims 3 and 11, (see col. 4, lines 25-29); that the polyester is liquid at room temperature, as claimed in claim 13, (see col. 5, lines 28-36); that the washing compositions contain enzymes such as cellulases, as claimed in claim 14, (see col. 6, lines 43-45); that the anti-redeposition agent is used in all three processes: pre-soak, desize, and abrasion stages for stonewashing, as claimed in claim 15, (see col. 11, lines 56-59); 5-30 moles of alkylene oxide for the oxyalkylated polyol, as claimed in claim 16, (see col. 4, lines 25-29); and indigo dyed denim treated by the method of the invention, as claimed in claim 20, (see col. 11, lines 53-56).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-3, 6-9, 11, 13-17, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Salsman et al. (US 6,008,182), in view of Fujimori et al. (US 6,998,463).

The disclosure of Salsman et al. (US '182) as described above, does not teach that terephthalic acid makes up more than 90 mole percent of the dicarboxylic acid compounds and that ethylene glycol makes up more than 90 mole percent of the diol compounds, and the molecular weight of the polyethylene glycol.

However, Salsman et al. teaches that the dye redeposition inhibiting agents useful in the invention are water-soluble or water dispersible polyester resins made from terephthalate polymers (see col. 3, lines 48-51).

Fujimori et al. (US '463) teaches a polyester resin produced by polycondensing a dicarboxylic acid component containing terephthalic acid and a diol component containing ethylene glycol via an esterification reaction, and preferably the terephthalic acid component constitutes at least 96 mole percent of the dicarboxylic acid component and ethylene glycol constitutes at least 96 mole percent of the diol component, as claimed in claims 2, 7, 9, 17 (see col. 3, lines 56-67) and that the number average molecular weight of the product is preferably from 500 to 5,000, as claimed in claim 6, (see col. 9, lines 54-56); that if isophthalic acid is present it only exists as 0.1 to 3 mole percent of dicarboxylic acid compounds, as claimed in claim 8, (see col. 4, lines 36-42).

Therefore, in view of the teaching of the secondary reference, one having ordinary skill in the art at the time the invention was made would be motivated to modify

the process for preventing or minimizing dye redeposition taught by Salsman et al. with the polyester resin composition taught by Fujimori et al.in order to arrive at the claimed invention, and, thus, a person of ordinary skill in the art would expect such a process to have similar properties to those claimed, absent unexpected results.

Allowable Subject Matter

Claims 5 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art of record does not teach or disclose the limitations of the instant claims.

Conclusion

The references listed on form PTO-1449 have been reviewed by the examiner and are considered to be cumulative to or less material than the prior art references relied upon in the rejection above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KATIE HAMMER whose telephone number is (571)270-7342. The examiner can normally be reached on Monday to Friday, 10:00am EST to 6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Y. Pyon can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KLH/

/Eisa B Elhilo/ Primary Examiner, Art Unit 1796 March 12, 2009